

IN THE CLAIMS:

This listing of claims below will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1. (Previously presented): An inhaler comprising a housing to receive a plurality of blisters each having a puncturable lid and containing a dose of medicament for inhalation by a user, a mouthpiece through which a dose of medicament is inhaled by a user and an actuator operable to sequentially move each blister into alignment with a blister piercing member, said actuator also being operable to cause the blister piercing member to puncture the lid of an aligned blister such that, when a user inhales through the mouthpiece, an airflow through the blister is generated to entrain the dose contained therein and carry it via the mouthpiece into the user's airway.

Claim 2. (Original): An inhaler according to claim 1, wherein the actuator is pivotally mounted to the housing.

Claim 3. (Previously presented): An inhaler according to claim 1, wherein the actuator comprises an arm pivotally mounted to the housing at one end.

Claim 4. (Original): An inhaler according to claim 3, wherein the blister piercing member depends from one side of said arm positioned so as to extend through an aperture in the housing in a closed position, in which the arm lies substantially against the housing, to pierce the lid of a blister aligned with the blister piercing member.

Claim 5. (Previously presented): An inhaler according to claim 3, wherein the piercing member comprises at least two discrete piercing heads operable to pierce a corresponding number of

holes in a blister aligned with the blister piercing member.

Claim 6. (Original): An inhaler according to claim 5, wherein each piercing head comprises a primary cutting element and a pair of secondary cutting elements extending laterally across each end of the primary cutting element.

Claim 7. (Original): An inhaler according to claim 6, wherein the primary cutting element and the secondary cutting elements each have a pointed tip, the tip of the primary cutting element extending beyond the tips of each of the secondary cutting elements.

Claim 8. (Previously presented): An inhaler according to claim 5, wherein an opening is formed in the arm in the vicinity of each piercing head, at least one of said openings forming an airflow inlet into a blister and, at least one other of said openings forming an airflow outlet from a blister.

Claim 9. (Original): An inhaler according to claim 8, wherein the mouthpiece is on the arm and extends in a direction opposite to the direction in which the piercing heads extend, the openings in the arm being in communication with the inside of the mouthpiece.

Claim 10. (Previously presented): An inhaler according to claim 8, wherein the mouthpiece includes a primary chamber having an outside air inlet in communication, via the primary chamber, with the or each airflow inlet opening in the arm and, a secondary chamber in communication with the or each airflow outlet opening in said arm such that, when a user inhales through the mouthpiece, air is drawn through the or each airflow inlet opening into the blister via the outside air inlet and the primary chamber to entrain the dose in the airflow, said entrained dose passing through the or each airflow outlet openings into the secondary chamber of the mouthpiece from where it is carried into the user's airway.

Claim 11. (Original): An inhaler according to claim 10, wherein a partitioning wall separates the primary and secondary chambers within the mouthpiece.

Claim 12. (Original): An inhaler according to claim 11, wherein at least one air bypass aperture extends through the partitioning wall to communicate the primary chamber with the secondary chamber.

Claim 13. (Original): An inhaler according to claim 12, wherein the or each bypass aperture is configured such that the airflow from the primary chamber into the secondary chamber through the or each bypass aperture and the airflow from the or each airflow outlet openings meet substantially at right angles to each other.

Claim 14. (Previously presented): An inhaler according to claim 1, comprising an indexing mechanism including an indexing member that moves a blister into alignment with the blister piercing member.

Claim 15. (Original): An inhaler according to claim 14, wherein the indexing member comprises an indexing wheel that rotates to move a blister into alignment with the blister piercing member.

Claim 16. (Original): An inhaler according to claim 15, wherein the indexing wheel is configured to rotate to move a blister into alignment with the blister piercing member in response to rotation of the actuator in one direction, movement of the actuator in the opposite direction being operable to puncture the lid of a blister aligned with the blister piercing member.

Claim 17. (Original): An inhaler according to claim 15, wherein the indexing wheel is configured to rotate to move a blister into alignment with the blister piercing member in response to rotation of the actuator with respect to the housing in one direction, movement of the actuator in the same direction also being operable to puncture the lid of a blister aligned with the blister

piercing member.

Claim 18. (Previously presented): An inhaler according to claim 16, including a cap attached to the housing pivotable between a closed position in which it covers the mouthpiece and an open position in which the mouthpiece is revealed to enable a user to inhale through the mouthpiece.

Claim 19. (Original): An inhaler according to claim 18, wherein the indexing wheel rotates to move a blister into alignment with the blister piercing member in response to rotation of the cap with respect to the housing from the open to the closed position.

Claim 20. (Original): An inhaler according to claim 19, wherein the cap and the actuator include co-operating means to couple the actuator to the cap such that the actuator rotates relative to the housing in response to rotation of the cap between the open and closed positions.

Claim 21. (Previously presented): An inhaler according to claim 1, wherein the housing includes a chamber to receive used blisters.

Claim 22. (Original): An inhaler according to claim 21, wherein the used blister chamber is covered by a lid attached to the housing which is openable to facilitate removal of a portion of used blisters from the blisters remaining in the device.

Claim 23. (Original): An inhaler according to claim 22, wherein a slot is formed between the lid and the housing when the lid is closed through which used blisters may protrude when the used blister chamber is full.

Claim 24. (Previously Presented): An inhaler according to claim 1 incorporating a coiled strip of blisters, each having a puncturable lid and containing a dose of medicament for inhalation by a user, located in the housing.

Claim 25. (Original): An inhaler according to claim 24, wherein the strip includes a frangible feature between each blister to facilitate detachment of a blister from an adjacent blister along said line.

Claim 26. (Previously presented): An inhaler according to claim 24, wherein the strip includes a notch to facilitate tearing of the strip between each blister.

Claim 27. (Previously presented): An inhaler according to claim 24, wherein the coiled strip carries between 30 and 60 blisters and each blister has a dose payload of between 10 and 25mg.

Claim 28. (Previously presented): An inhaler according to claim 1 formed from no more than five moulded components.

Claim 29. (Previously presented): An inhaler according to claim 1, formed from no more than six moulded components.

Claim 30. (Previously presented): An inhaler according to claim 1, formed from no more than nine moulded components.

Claim 31. (Previously presented): An inhaler according to claim 1 wherein the housing is wholly or partially formed from a transparent or translucent material allowing the remaining blisters to be seen through the housing.

Claim 32. (Previously presented): A method of using an inhaler according to claim 1, including the step of rotating the actuator to move a blister into alignment with the blister piercing member and to puncture the lid of an aligned blister, inhaling through the mouthpiece to generate an airflow through the blister to entrain the dose contained therein and carry it via the mouthpiece

into the user's airway.

Claim 33. (Original): A method according to claim 32, wherein the step of rotating the actuator includes the step of rotating it in a first direction to move a blister into alignment with the blister piercing member and, rotating it in a second direction to puncture the lid of the blister aligned with the blister piercing member

Claim 34. (Original): A method according to claim 33, wherein the step of rotating the actuator includes the step of rotating it in a first direction to puncture the lid of a blister aligned with the blister piercing member and, once the inhalation step is complete, rotating it in a second direction to move a subsequent blister into alignment with the blister piercing member.

Claim 35. (Original): A method according to claim 34, wherein the step of rotating the actuator comprises the step of rotating a cap coupled to the actuator.

Claims 36 to 63. (Cancelled)

Claim 64. (Previously presented): An inhaler according to claim 14, wherein the indexing mechanism comprises a blister strip locator chassis defining a path for the strip of blisters past the aperture in the housing.

Claim 65. (Original): An inhaler according to claim 64, wherein a resiliently deformable arm extends from the blister strip locator chassis and the indexing mechanism comprises an indexing wheel rotatably mounted to the free end of the resiliently deformable arm over which a strip of blisters is passed.

Claim 66. (Original): An inhaler according to claim 65, wherein the indexing wheel comprises a set of spokes and the actuator includes a drive tooth engageable with a first spoke when the

actuator is pivoted relative to the housing into an open position to cause the indexing wheel to rotate together with the actuator to index the blister strip.

Claim 67. (Original): An inhaler according to claim 66, comprising an anti-rotation ramp on the housing which is engaged by another spoke of the indexing wheel when the indexing wheel rotates thereby causing the arm to deform to allow said spoke to clear the anti-rotation ramp, the arm returning to its undeformed state once the spoke has cleared the ramp, thereby preventing rotation of the indexing wheel in the opposite direction.

Claim 68. (Original): An inhaler according to claim 67, wherein the drive tooth on the actuator is shaped so that, when the actuator is rotated in the opposite direction from its open into its closed position, the drive tooth slides over the top of the preceding spoke of the indexing wheel.

Claim 69. (Original): An inhaler according to claim 68, wherein the edge of each spoke is shaped to allow the drive tooth to pass over it when the actuator is pivoted from its open into its closed position.

Claim 70. (Previously presented): An inhaler according to claim 68, comprising a location ramp adjacent to but spaced from the anti-rotation ramp, the drive tooth being operable to cause the arm to resiliently deform as the drive tooth slides over the top of the spoke to cause another spoke to extend into the space between the anti-rotation and location ramps and prevent rotation of the indexing wheel in either direction.

Claim 71 (Previously presented): An inhaler according to claim 1, wherein the piercing member comprises a discrete piercing module.

Claim 72 (Previously presented): An inhaler according to claim 12, wherein the or each bypass aperture is configured such that airflow from the primary chamber into the secondary chamber

through the or each bypass aperture and the airflow from the or each airflow outlet openings meet substantially tangentially so as to create a cyclonic effect or increase airflow turbulence to assist deagglomeration.

Claim 73 (Previously presented): An inhaler comprising a housing to receive a plurality of blisters each having a puncturable lid and containing a dose of medicament for inhalation by a user, a mouthpiece through which a dose of medicament is inhaled by a user, an actuator and, a cap coupled to the actuator, the cap being rotatable to sequentially move each blister into alignment with a blister piercing member, said actuator being operable, in response to rotation of the cap, to cause the blister piercing member to puncture the lid of an aligned blister such that, when a user inhales through the mouthpiece, an airflow through the blister is generated to entrain the dose contained therein and carry it out of the blister and via the mouthpiece into the user's airway.

Claim 74 (Previously presented): An inhaler according to claim 73 wherein the cap is rotatable between open and closed positions and the actuator rotates relative to the housing in response to rotation of the cap between said open and closed positions.

Claim 75 (Previously presented): An inhaler according to claim 73, wherein the cap is mounted to the housing and is pivotable between a closed position in which it covers the mouthpiece and an open position in which the mouthpiece is revealed to enable a user to inhale through the mouthpiece.

Claim 76 (Previously presented): An inhaler according to claim 73, comprising an indexing wheel, wherein the indexing wheel rotates in response to rotation of the the cap to move a blister into alignment with a blister piercing member, said indexing wheel being configured to rotate to move a blister into alignment with the blister piercing member in response to rotation of the cap with respect to the housing in one direction, the actuator being operable, in response to rotation

of the cap in the same direction, to cause the blister piercing member to puncture the lid of an aligned blister.

Claim 77 (Previously presented): An inhaler according to claim 73, comprising an indexing wheel, wherein the indexing wheel rotates in response to rotation of the cap to move a blister into alignment with a blister piercing member, said indexing wheel being configured to rotate to move a blister into alignment with the blister piercing member in response to rotation of the cap with respect to the housing in one direction, the actuator being operable, in response to rotation of the cap in the opposite direction, to cause the blister piercing member to puncture the lid of an aligned blister.

Claim 78 (Previously presented): An inhaler according to claim 76, wherein the cap and the actuator include co-operating means to couple the actuator to the cap such that the actuator rotates relative to the housing in response to rotation of the cap between the open and closed positions.

Claim 79 (Previously presented): A method of using an inhaler comprising a housing to receive a plurality of blisters each having a puncturable lid and containing a dose of medicament for inhalation by a user, a mouthpiece through which a dose of medicament is inhaled by a user and, an actuator operable to sequentially move each blister into alignment with a blister piercing member, the method including the step of rotating the actuator to move a blister into alignment with the blister piercing member and to puncture the lid of an aligned blister such that, when a user inhales through the mouthpiece, an airflow through the blister is generated to entrain the dose contained therein and carry it out of the blister and via the mouthpiece into the user's airway.

Claim 80 (Previously presented): A method according to claim 79, wherein the step of rotating the cap includes the step of rotating the cap with respect to the housing in one direction to move

a blister into alignment with the blister piercing member and rotating the cap in the same direction to cause the blister piercing member to puncture the lid of an aligned blister.

Claim 81 (Previously presented): A method of using an inhaler comprising a housing to receive a plurality of blisters each having a puncturable lid and containing a dose of medicament for inhalation by a user, a mouthpiece through which a dose of medicament is inhaled by a user, an actuator and, a cap coupled to the actuator rotatable in response to rotation of the cap, the method including the step of rotating the cap to sequentially move each blister into alignment with a blister piercing member and to rotate the actuator to puncture the lid of an aligned blister such that, when a user inhales through the mouthpiece, an airflow through the blister is generated to entrain the dose contained therein and carry it out of the blister and via the mouthpiece into the user's airway.

Claim 82 (Previously presented): A method according to claim 81, wherein the step of rotating the cap includes the step of rotating the cap with respect to the housing in one direction to move a blister into alignment with the blister piercing member and rotating the cap in the same direction to cause the blister piercing member to puncture the lid of an aligned blister.

Claim 83 (Previously presented): A method according to claim 80, wherein the step of rotating the actuator includes the step of rotating it in a first direction to puncture the lid of a blister aligned with the blister piercing member and, once the inhalation step is complete, rotating it in a second direction to move a subsequent blister into alignment with the blister piercing member.